

Atty. Docket No.: UCONAP/145/PC/US

In re patent of: Alexandros Makriyannis et al

Application No.:

09/600,786

Examiner:

Not assigned

Filing Date:

July 21, 2000

Group Art Unit:

1614

For:

Cannabimimetic Lipid Amides as Useful Medications

TRANSMITTAL FORM

Enclosed herewith is (are):

- Information Disclosure Statement
- Form PTO-1449
- References cited in PTO-1449
- Return postcard

It is hereby petitioned that any required extension of time be granted for filing the enclosed papers. An extension of __ month(s) having a fee of \$____ appears required.

A check in the amount of \$____ is enclosed. Please credit any overpayment to Deposit Account 16-2563 of Alix, Yale & Ristas, LLP.

The Commissioner is hereby requested and authorized to charge Deposit Account 16-2563 of Alix, Yale & Ristas, LLP for any fee, not enclosed herewith, due for any reason during the pendency of this application or in connection with the accompanying document, including (a) any filing fees under 37 CFR 1.16 for the presentation of extra claims and (b) any patent application processing fees under 37 CFR 1.17. A duplicate copy of this sheet is enclosed.

The undersigned hereby certifies that this correspondence is being deposited on the date below with the United Parcel Service as UPS ground shipment in a box addressed to "Commissioner for Patents, U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Crystal Plaza 2, Lobby, Room 1B03, Arlingten, VA 22202".

Date: 10-26-2004 Alix, Yale & Ristas, LLP 750 Main Street- Suite 1400 Hartford, CT 06103-2721 (860) 527-9211

James E. Piotrowski Registration No. 43,860

Attorney for Applicant

G:AYR saved docs\xJEP\AX Transmittal\uconap.145.pc.us 10-20-04 IDS.transmittal.doc



Attorney Docket: UCONAP/145/PC/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of: Alexandros Makriyannis et al

Application No.:

09/600,786

Examiner:

Not Assigned

Filing Date:

07/21/2000

Group Art Unit:

1614

For:

Cannabimimetic Lipid Amides as Useful Medications

Commissioner for Patents, U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Crystal Plaza 2, Lobby, Room 1B03, Arlington, VA 22202

Sir:

Information Disclosure Statement

Applicant submits herewith patents, publications or other information of which they are aware and which they believe may be material to the examination of the above-identified application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

This Information Disclosure Statement is not intended to constitute an admission that any patent, publication or other information referred to herein or submitted herewith is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g) and (h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(b) exists.

For US national applications filed after June 30, 2003 and International applications that have entered the national stage after June 30, 2003 a copy of a cited US patent or cited US patent publication is NOT required. See OG Notices: 5 August 2003. Accordingly, no copies of a cited US patent or cited US patent publication are enclosed for

Attorney Docket: UCONAP/145/PC/US

these applications. A copy of each item other than a US patent or a US patent publication

listed on the attached INFORMATION DISCLOSURE CITATION IN AN APPLICATION is

supplied herewith.

For US national applications filed before June 30, 2003 and International

applications that have entered the national stage before June 30, 2003 a copy of each of

the items listed on the attached INFORMATION DISCLOSURE CITATION IN AN

APPLICATION is supplied herewith.

Citations in bold type and having a name preceded with *1* indicate references

which are believed to be more closely related to the claimed subject matter. This indication

is not meant to indicate or imply any position with respect to the remaining references.

Citations in italics and having a name preceded with *** indicate references for

which Applicant has no copy to submit. If a copy of any of these references is procured

the same will be filed in a subsequent IDS.

Respectfully submitted,

ALEXANDROS MAKRIYANNIS et al

Date: 10-26-2004 750 Main Street- Suite 1400

Hartford, CT 06103-2721

(860) 527-9211

James E. Piotrowski

Registration No. 43,860

Alix, Yale & Ristas, LLP Attorney for Applicants

G:\AYR saved docs\Filing Docs\Uconap\uconap.145.pc.us\10-04 inclusive IDS.doc

AYR 11/03

2

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

Application No. 09/600,786 Inventor Alexandros Makriyannis et al

Title
Cannabimimetic Lipid Amides as Useful Medications

Filing Date Group Art Unit Docket No. 1614 UCONAP/145/PC/US

UNITED STATES PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class
	09/698,071	10/30/00	Fride et al, (copy not included, this is the parent application for US Publication No. 2002/0173528, enclosed herewith)	
	09/701989	6/9/99	*1* Makriyannis et al (copy not included, this is the U.S. National Phase of the Int'l Application published as WO 99/64389 enclosed herewith)	
	10/110865	10/18/00	Makriyannis et al (copy not included, this is the U.S. National Phase of the Int'l Application published as WO 01/29007 enclosed herewith)	
	10/110830	10/18/00	Makriyannis et al (copy not included, this is the U.S. National Phase of the Int'l Application published as WO 01/28329 enclosed herewith)	
	10/110812	10/18/00	Makriyannis et al (copy not included, this is the U.S. National Phase of the Int'l Application published as WO 01/28497 enclosed herewith)	
	10/110862	10/18/00	*1* Makriyannis et al (copy not included, this is the U.S. National Phase of the Int'l Application published as WO 01/28498 enclosed herewith)	
	10/111059	10/18/00	Makriyannis et al (copy not included, this is the U.S. National Phase of the Int'l Application published as WO 01/28557 enclosed herewith)	
	10/493093	10/28/02	Makriyannis et al (copy not included, this is the U.S. National Phase of the Int'l Application published as WO 03/35005 enclosed herewith)	
	10/647544	8/25/03	Makriyannis et al	
	10/790498	3/1/04	Makriyannis et al	

INFORMATION DISCLOSURE CITATION IN AN APPLICATION			olication No. /600,786	Inventor Alexandros Makriyannis et al			
		Title		ipid Amides a	as Useful Medicatio	ns	
			ng Date /21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC	P/145/PC/US	
2002/0119972	8/29/0	2	Leftheris et al				
2002/0173528	11/21/	02	Fride et al				
2003/0120094	6/26/0	3	Makriyannis e	t al		-	
2003/0149082	8/7/03	}	*1* Makriyanı	nis et al			
2004/0077649	4/22/0	14	Makriyannis e				
2004/0077851	4/22/0	4	Makriyannis e	t al			
2004/0087590	5/6/04		Makriyannis e				
3041343	6/26/6	2	Jucker et al				
3465024	9/2/69)	*1* Brownste	in et al			
3573327	3/30/7	<u>'1</u>	Miyano				
3577458	5/4/71	_	*1* Brownste	in et al			
3656906	4/18/7	<u>'2</u>	Bullock				
3838131	9/24/7	4	Gauthier				
3886184	5/27/7	'5	Matsumoto et	al			
3897306	7/29/7	' 5	Vidic				
3915996	10/28/	/75	Wright				
3928598	12/23/	75	Archer				
3944673	3/16/7	'6	Archer				
3946029	3/23/7	' 6	Descamps et	al			
3953603	4/27/7	<u>'6</u>	Archer				
4036857	7/19/7	7	Razdan et al				
4054582	10/18/	/77	Blanchard et	al			
4087545	5/2/78	3	Archer et al				
4087546	5/2/78	3	Archer et al				
4087547	5/2/78	}	Archer et al				
4088777	5/9/78	}	Archer et al				
4102902	7/25/7	'8	Archer et al				
4152450	5/1/79		Day et al				
4171315	10/16		Ryan et al	·			
4176233	11/27	/79	Archer et al				
4179517	12/18		Mechoulam				
4188495	2/12/8		Althuis et al	<u></u>			
4208351	6/17/8		Archer et al				
4278603	7/14/8		Thakkar et al				
4282248	8/4/81		Mechoulam e	t al			
4382943	5/10/8		Winter et al				
4395560	7/26/8	33	Ryan				

INFORMATION DISCLOSURE CITATION IN AN APPLICATION			olication No. /600,786	Inventor Alexandros Makriyannis et al		
		Title Cannabimimetic L		_ipid Amides as Useful Medications		ations
			ng Date /21/2000	Group Art Unit 1614	Docket No. UCONAP/145/	PC/US
4497827	2/5/85		*1* Nelson			
4550214	10/29/	85	Mehta			
4758597	7/19/8	8	Martin et al			
4812457	3/14/8	9	*1* Narumiya			
4876276	10/24/	89	Mechoulam			
4885295	12/5/8	9	Bell et al			
5053548	10/1/9	11	Tanaka et al			
5068234	11/26/	91	D'Ambra et al			
5147876	9/15/9	2	Mizuchi et al			
5223510	6/29/9	3	Gubin et al			
5284867	2/8/94	•	Kloog			
5324737	6/28/9	4	D'Ambra et al			
5434295	7/18/9	5	Mechoulam e	t al		
5440052	8/8/95	·)	Makriyannis et al			
5462960	10/31/	95	Barth et al			
5489580	2/6/96)	Makriyannis et al			<u></u>
5521215	5/28/9	6	Mechoulam			
5532237	7/2/96	3	Gallant et al			
5538993	7/23/9	6	Mechoulam			
5576436	11/19	96	*1* McCabe e	et al		
5605906	2/25/9	7	Lau			
5607933	3/4/97	<u>, </u>	D'Ambra et al			
5618955	4/8/97	,	*1* Mechoula	ım et al		
5624941	4/29/9)7	Barth et al			
5635530	6/3/97	<u> </u>	Mechoulam			
5688825	11/18	/97	*1* Makriyanı	nis et al		ļ <u>.</u>
5747524	5/5/98	}	Cullinan et al			
5744459			Makriyannis e	t al		
5804601	9/8/98	}	*1* Kato et al EP0737671)	(appears eq	uivalent to	
5817651	10/6/9	8	D'Ambra et al			
5872148	2/16/9	9	Makriyannis e	t al		
5874459	2/23/9	9	*1* Makriyan	nis et al		
5925628	7/20/9	9	*1* Lee et al			
5925768	7/20/9	9	Barth et al			
5932610	8/3/99)	Shohami et a	wi= -		

INFORMATION DISCLOSURE CITATION IN AN APPLICATION			olication No. /600,786		Inventor Alexandros Makriyannis et al				
			Cannabimimetic Lipid Amides as Useful Medi			dications	;		
				ng Date /21/2000		Group Art Unit Docket No. 1614 UCONAP/145/F		45/PC/U	s
	5948777	9/7/99		Bender e	t al				
	6013648	1/11/0	0	Rinaldi et FR27357		appears equiv	alent to		
	6028084	2/22/0	0	Barth et a	al				
	6096740	9/1/00		Mechoula	am				
	6127399	10/3/0	0	Yuan					
	6166066	12/26/	00	Makriyan					
	6284788	10/4/0	1	Mittendor EP86016		al (appears ed	uivalent to		
	6391909	5/21/0	2	*1* Makr	iyanı	nis et al			
	6579900	6/17/0	3	*1* Makr	iyanı	nis et al			
	6610737	8/26/0	3	Garzon e	t al				
		FORE	IGN	I PATENT	DOC	CUMENTS			
Examiner Initial	Document No.	Dat		Country		Name		Translatio	on —
	EP0276732	8/3/8		EP		Hoffman La Roche Sterling Drug (English			
	EP0444451	9/4/9	1	EP	bibl cov equ	riing Drug (En iography, abs er page, appe ivalent to USt ch is also cite	tract and ears 5068234		
	EP0471609	6/29/93		EP	pag bibl app US	Gubin et al, in French, front page only (English bibliography and abstract, appears equivalent to US5223510)			
	EP0737671	10/16	6/96	EP	Ind (bit equ	Takeda Cherustries, frontoliography, a nivalent to US	page only ppears 5 5804601)		
	EP0860168	9/4/0	01 EP		Mittendorf et al, in German, front page only (including English bibliography, appears equivalent to US6284788)				

INFORMATION DISCLOSURE			ication No. 300,786		Inventor Alexandros Makriyannis et al		
CITATION IN AN APPLICATION			nnabimim	etic L	c Lipid Amides as Useful Medications		dications
			Date 21/2000		Group Art Unit 1614	Docket No. UCONAP/14	45/PC/US
FR2240003	5/27/	/75 FR		(inc bibli app	sumoto et al, luding English lography and a ears equivale 3886184)	abstract,	
FR2735774	1/11/00		FR	Barth et al, in French (including English bibliography and abstract, appears equivalent to US6013648)			
GB2027021A	2/13/	80	GB	(app	echoulam et al, in English ppears equivalent to S4282248)		
JP2304080	12/17/90		JP	Jap	ayama Hajim anese (includ iography and	ing English	
JP57098228	6/18/	82	JP	(inc	la et al, in Jap luding English iography and	ı	333
WO 01/28329	4/26/	01		Mal	kriyannis et al,	in English	
WO 01/28497	4/26/	01		Mal	kriyannis et al,	in English	
WO 01/28498	4/26/	01		1	Makriyannis glish	et al, in	: :
WO 01/28557	4/26/	01			kriyannis et al,		
WO 01/29007	4/26/	01			kriyannis et al,	<u> </u>	
WO 01/32169	5/10/				le et al, in Enc		
WO 01/58869		8/16/01		pag bibl app US2	ndit et al, in Er le only (includ iography and lears equivale 2002/0119972	ing abstract, nt to 2)	
WO 02/058636	8/1/0				kriyannis et al		
WO 02/060447	8/8/0			_	kriyannis et al		
WO 03/005960	1/23/				kriyannis et al		
WO 03/020217	3/13/				kriyannis et al		
WO 03/035005	5/1/0				kriyannis et al		
WO 03/063758	8/7/0				zon et al, in E		
WO 03/064359	8/7/0	3	<u> </u>	Gar	zon et al, in E	nglish	

INFORMA	INFORMATION DISCLOSURE CITATION IN AN APPLICATION			ication No. 600,786		Inventor Alexandros Makriyannis et al		
			Title Car	nabimim	etic L	Lipid Amides as Useful Medications		dications
			Filing Date 07/21/2000		Group Art Unit 1614	Docket No. UCONAP/1	45/PC/US	
V	VO 97/00860	1/9/9	(inclu biblic appe		aldi et al, in French cluding English liography and abstract, bears equivalent to 6013648)			
V	VO 99/57106	11/11	/99		-	kriyannis et al		
	VO 99/57107	11/11				riyannis et a		
V	VO 99/64389	12/16	5/99			Makriyannis _I lish	et al, in	
	IER DOCUMEN	TS (In	cludi	ng Autho	r, Titl	e, Date, Pert	inent Pages,	Etc.)
Examiner Initial								
	1 Abadji V., Lin S., Taha G., Griffin G., Stevenson L.A., Pertwee R.G., Makriyannis A.; "(R)-Methanadamide: a chiral novel anandamide possessing higher potency and metabolic stability"; J. Med. Chem.; 37(12); 1889-1893; 1994; CODEN: JMCMAR; ISSN: 0022-2623; XP002040932 Alo, B.I.; Kandil, A.; Patil, P. A.; Sharp, M. J.; Siddiqui, M. A.; and Snieckus, V. Sequential Directed Ortho Metalation-Boronic Acid Cross-Coupling Reactions. A general Regiospecific Route to Oxygenerated Dibenzo[b,d]pyran-6-ones Related to Ellagic Acid, J. Org. Chem. 1991, 56, 3763-3768							
	*** Archer et al	•)77)
	ketocannabinoids."; J. Org. Chem.; vol. 42; no. 13; 2277-2284; (1977) Arnone M., Maruani J., Chaperon P, et al, Selective inhibition of sucrose and ethanol intake by SR141716, an antagonist of central cannabinoid (CB1) receptors, Psychopharmacal, (1997) 132, 104-106. (abstract only)							
	1 Barnett-Norris et al; "Exploration of biologically relevant conformations of anandamide,"; J. Med. Chem.; vol. 41; 4861-4872; 1998							
	Beak, P.; and Brown, R A., The Tertiary Amide as an Effective Director of Ortho Lithiation, J. Org. Chem. 1982, 47, 34-36							
	Belgaonkar et al; "synthesius of isocoumarins"; Indian J. Chem; vol. 13; no. 4; 336-338; 1975 (abstract only)							
	1 Beltramo M., Stella N., Calignano A., Lin S. Y., Makriyannis A., Piomelli D; "Functional Role Of High-Affinity Anandamide Transport, as Revealed By Selective Inhibition"; Science; vol. 277; 1094-1097; 1997							

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros	Makriyannis et al			
CITATION IN AN APPLICATION	Title Cannabimimetic I	Title Cannabimimetic Lipid Amides as Useful Medications				
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US			
1 Beltramo M., Ste	lla N., Calignano	A., Lin S. Y.,	Makriyannis A.,			
Piomelli D; "Identific	cation and Function	onal Role of	High Affinity			
Anandamide Transp						
1 Beltramo M., Pio						
Vanilloide Agonist 0	_	an J. of Phar	macology; (1999);			
364(1); 75-78 (abstr						
Berdyshev EV, Cann	•					
response. Chem Phy			9-90			
1 Berglund et al; "						
arachidonylethanol						
receptors: "; Pro	_		ds essential fatty			
acids; 59(2); 111-11						
			s fo 2,5-disubstituted			
1,3,4-oxadiazoles and						
	(Russian Edition);	48(12); 1308	-1311; 1982 (abstract			
only)	t A dandations i	Marshaan	o Charles That			
Bracey, M et al, Struc Terminates Endocan 1796			е Enzyme That 002; 298(5599): 1793-			
Brenneisen R, Pgli A rectally administered with 2 patients. Int. J. only)	Δ9 - tetrahydrocar	nnabinol on sp	The effect of orally and pasticity, a pilot study 1:446-452. (abstract			
Brotchie JM: Adjunct reducing the problem (1998)13:871-876. (a	of dyskinesia in P					
Comparison of mono and 2-ethyl analogue alkenes"; J. Org. Che	Brown et al; "Synthesis and hydroboration of (-)-2-phenylapopinene, Comparison of mono(2-phenylapoisopinocampheyl)borane with its 2-methyl and 2-ethyl analogues for the chiral hydroboration of representative alkenes"; J. Org. Chem.; 55(4); 1217-1223; (1990)					
Buckley NE, McCoy I is absent in mice def Pharmacol (2000) 39	Buckley NE, McCoy KI, Mpzey E et al, "Immunomodulation by cannabinoids is absent in mice deficient for the cannabinoid CB2 receptor"; Eur. J Pharmacol (2000) 396:141-149.					
Burstein et al; "detec Res. Commun.; vol.			."; Biochem. Biophys. : only)			
Busch-Peterson et al hydroxyhexahydroca (1996)						

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros	Makriyannis et al			
CITATION IN AN APPLICATION	Title Cannabimimetic L	Title Cannabimimetic Lipid Amides as Useful Medications				
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US			
			ntrol of pain initiation by			
endogenous cannabi						
	andamide Hypoter	ision by the	rannis A., Piomelli D; Transport Zinhibitor,			
1 Calignano A., La Piomelli D; "Inhibiti Endogenous Canna	on of Intestinal Mo binoid"; Eur. J. Pl	otility by Ana narmacol.; 1	ndamide, an 997; 340 R7-R8			
in the management of 7;323(7303):13-6	Campbell FA et al; "Are cannabinoids an effective and safe treatment option in the management of pain? A qualitative systematic review"; BMJ. 2001 Jul					
Cannabinoid Recepte	or"; J. Med. Chem.,	35, 3076 - 30	otoaffinity Label for the 079 (1992)			
	Charalambous A. et al; "Pharmacological evaluation of halogenated"; Pharmacol. Biochem. Behav.; vol. 40; no. 3; 509-512; 1991					
concentration of Inhil	Cheng et al; "Relationship Between the Inhibition Constant (Ki) and the concentration of Inhibitor which causes 50% Inhibition (IC50) of an Enzymatic Reaction"; Biochem. Pharmacol., 22, 3099-3102, (1973)					
anhydride on the lit	hium nitronate sa	It of 2-pheny	chloride and of acetic Initroethane"; vith English abstract			
1 Cherest M., Lus	inchi X.; "A novel	electrophilic	N-amidation via			
electron deficient c	omplexes: action	of ferric chlo	ride on N-			
Colombo G, Agabio	acetyloxyamides"; Tetrahedron Letters; 30(6); 715-718; 1989 Colombo G, Agabio R, Diaz G. et al; "Appetite suppression and weight loss after the cannabinoid antagonist SR141716"; Life Sci. (1998) 63-PL13-PL117 (abstract only)					
Bicyclic Cannabino	*1* Compton D.R. et al; "Pharmacological Profile Of A Series Of Bicyclic Cannabinoid Analogs: Classification as Cannabimimetic					
			1992. (abstract only)			
Compton et al; "Synt related analogues of Med. Chem; vol. 34;	delta8 delta9- and	d delta9,11-te	etrahydrocannabinol"; J.			
Consroe P, Musty R,	Rein J, Tillery W, I patents with multip	Pertwee R; "T	he perceived effects of Eur. Neurol. (1997) 38-			

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros	Makriyannis et al				
CITATION IN AN APPLICATION	Title Cannabimimetic L	Title Cannabimimetic Lipid Amides as Useful Medications					
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US				
Coxon et al; "Derivati (1970) (abstract only		ust. J. Chem	.; 23; 1069-1071;				
receptor, induces hyp Pharmacology Bioche	Crawley et al; "Anandamide, an endogenous ligand of the cannabinoid receptor, induces hypomotility and hypothermia in vivo in rodents"; Pharmacology Biochemistry and Behavior; vol. 46; 967-972; 1993 D'Ambra et al; "C-attached aminoalkylindoles: potent cannabinoid mimetics						
Bioorg. & Med. Chem	n. Lett., 1996, 6(1),	17-22					
Sensation"; J. Phar	macol. Exp. Ther.;	72; 74-79; 1	941				
1	zaaspidosperman	e skeleton";	2,3-a]quinolizidines to Tetrahedron Letters; act				
anandamide inhibits Acad. Sci. USA (July	DePetrocellis L, Melck D, Palmisano A. et al; "The endogenous cannabinoid anandamide inhibits human breast cancer cell proliferation"; Proc. Natl. Acad. Sci. USA (July 1998) 95:8375-8380.						
activity in rat brain	microsomes"; J. E	Biol. Chem.; 2	nide amidohydrolase 270; 6030-6035; (1995)				
metabolism and bin	*1* Deutsch D.G. et al; "Fatty acid sulfonyl fluorides inhibit anandamide metabolism and bind to cannabinoid receptor"; Biochem. Biophys. Res. Commun. 231(1); 217-221; 1997; CODEN: BBRCA9; ISSN:0006-						
1 Deutsch D.G., C anandamide, a canr Pharmacology; 46(5	nabinoid receptor		and degradation of ochemical				
Devane, W.A. et al; "	Devane, W.A. et al; "Determination and Characterization of a Cannabinoid Receptor in a Rat Brain"; Mol. Pharmacol., 34, 605 - 613 (1988). (abstract						
endogenous cannabi	Di Marzo, V., Melck, D., Bisogno, T., DePetrocellis, L.; "Endocannabinoids: endogenous cannabinoid receptor ligands with neuromodulatory action"; Trends Neurosci. (1998) 21:521 - 528.						
1 Di Marzo, V., Bis Stevenson, L., Perto synthetic vanilloids Letters; (1998); 437	wee, R., DePetroce and the endogen	ellis, L., "Inte ous cannabii	· · · · · · · · · · · · · · · · · · ·				
	apid Method for Pr	eparing Syna	ptosomes: Comparison 18 (1981). (abstract				

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros	Makriyannis et al				
APPLICATION	Title Cannabimimetic I	Title Cannabimimetic Lipid Amides as Useful Medications					
	Filing Date Group Art Unit Docket No. 1614 UCONAP/145/Pe						
344-346; (1977)			s"; J. Org. Chem. 42(2);				
41(19); 3596-3608 (1	998)		ds"; J. Med. Chem.; vol.				
Edery et al; "Activity of Chem.; 27; 1370-137	3 (1984)	_					
	Eissenstat et al; "Aminoalkylindoles: structure-activity relationships of novel cannabinoid mimetics"; J. Med. Chem. 1995, Vol. 38, No. 16, pp. 3094-						
	nabinol and Four of		The Total Synthesis of J. Amer. Chem. Soc.				
Fahrenholtz; "The sy tetrahydrocannabinol							
CLVI. 1,3-dipolar cyc	Fisera, L., Kovac, J., Lesco, J., Smahovsky, V.; "Furan derivatives. Part CLVI. 1,3-dipolar cycloadditions of heterocycles. V. Reaction of C-acetyl-N-phenylnitrilimine with furan derivatives"; Chemicke Zvesti; 35(1); 93-104						
1 Fride, E. & Mech cannabinoid recept European Journal o	oulam, R.; "Pharr or agonist, anand	amide, a brai	n constituent";				
Galiegue S et al. ; "E receptors in human in Biochem.; 1995 Aug	mmune tissues and	l leukocyte su	bpopulations"; Eur J				
M.; Tremblay, N.; We activity relationships receptors"; Bioorg. M	Gareau, Y.; Dufresne, C.; Gallant, M.; Rochette, C.; Sawyer, N.; Slipetz, D. M.; Tremblay, N.; Weech, P. K.; Metters, K. M.; Labelle, M.; "Structure activity relationships of tetrahydrocanabinol analogs on human cannabinoid receptors"; Bioorg. Med. Chem. Lett. 1996, 6(2), 189-194						
tetrahydrocannabino Pharmacol. Exp. The	et al; "A comparison of the discriminative stimulus properties of delta9- hydrocannabinol and CP 55,940 in rats and rhesus monkeys"; J. macol. Exp. Ther.; vol. 262(2); 479-486; 1992						
	998) Nov. 116(11);	1433-1437. (a	abstract only)				
tetrahydrocannabino	hthamol. (1998) Nov. 116(11); 1433-1437. (abstract only) n, A.J., Grimaldi M. Axpirod J. Wink D; "Cannabidiol and (-) Δ9 rocannabinol are neuroprotective antioxidants"; Proc. Natl Acad Sci. ly 1998) 95; 8268-8273.						

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros	Makriyannis et al			
CITATION IN AN APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications					
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US			
Hargreaves, K. et al;						
nociception in cutane only)						
			of Tourette's syndrome			
with marijuana"; J. Ps	sychopharmacol, (1	993) 7:389-3	91.			
Herzberg U, Eliav E, WIN 55,212-2 mesyla neuropathic pain"; Ne	ate, a high affinity o	annabinoid a	gonist in a rat model of			
1 Hillard C. J., Edg	gemond, W. S., Ja	rrahian W., C	ampbell, W. B;			
"Accumulation of N						
Cerebellar Granule		acilitated Di	ffusion"; Journal of			
Neurochemistry; 69						
1 Horrevoets A.J.0						
membrane phospho	-		exadecanesultonyl			
fluoride"; Eur. J. Bio						
1 Horrevoets A.J.0						
coli outer membran						
peptides results in						
hexadecanesulfony Howlett et al; "Azido						
			ir signal transduction";			
Journal of Neurocher						
Howlett et al; "Stered	chemical effects of	11-OH-delta	8			
			ate cyclase and bind to			
the cannabinoid rece	• • •	•	-			
Huffman et al; "3-(1',						
compounds: synthes	is of selective ligan	ds for the CB	2 receptor"; Bioorganic			
and Medicinal Chem						
Huffman et al; "Stere	-	-				
tetrahydocannabinols						
	luffman et al; "Synthesis of 5',11 dihydroxy delta 8 tetrahydrocannabinol"; etrahedron, vol. 53(39), pp 13295-13306 (1997)					
Huffman et al; "Synth			onally constrained			
analogue of delta8-T 2281-2288; 1998; XF		Medicinal Che	emistry; vol. 6(12);			
Huffman et al; "Synth	nesis of both enant		ilone from a common			
	odivergent synthes		noids"; J. Org. Chem.;			

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros	Makriyannis et al				
CITATION IN AN APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications						
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US				
Joy JE, Wagtson SJ, Science Base"; Natio							
Kaminski NE; "Regul	(abstract only) Kaminski NE; "Regulation of the cAMP cascade, gene expression and immune function by cannabinoid receptors"; J Neuroimmunol. 1998 Mar						
1 Kawase M. et al; methoxy-N-acylnitre methoxyamides: sy	*1* Kawase M. et al; "Electrophilic aromatic substitution with N-methoxy-N-acylnitrenium ions generated from N-chloro-N-methoxyamides: synthesis of nitrogen heterocyclic compounds bearing a N-methoxyamide group"; J. Org. Chem.; 54; 3394-3403; 1989						
1 Khanolkar A., Al Z., Fan P., Makriyan arachidonylethanol	*1* Khanolkar A., Abadji V., Lin S., Hill W., Taha G., Abouzid K., Meng Z., Fan P., Makriyannis A.; "Head group analogues of arachidonylethanolamide, the endogenous cannabinoid ligand"; J. Med. Chem.; vol. 39(22); 4515-4519; (1996)						
Khanolkar et al; "Mol and Physics of Lipids	ecular probes for to ; 108; 37-52; (200	ne cannabinoi 0)	d receptors"; Chemistry				
Exp Biol Med. 2000 (Klein TW et al, "Can	Oct; 225(1):1-8; (al	stract only)	ne network"; Proc Soc				
1998 Aug; 19(8):373- *1* Koutek B. et al;	-81						
	Chem.; 269(37);		94; CODEN: JBCHA3;				
Kumar RN, et al; "Ph and cannabinoids"; A	armacological action nesthesia, 2001, 5	6: 1059-1068					
	Lan, R et al; "Structure activity relationships of pyrazole derivatives as cannabinoid receptor antagonists"; J. Med. Chem.; vol. 42(4); 769-776;						
Brain Microsomal A 42(5); 896-902; (199	*1* Lang, W. et al; "Substrate Specificity and Stereoselectivity of Rat Brain Microsomal Anandamide Amidohydrolase"; J. Med. Chem.; vol. 42(5); 896-902; (1999)						
)-nopinene"; J. Org. (Lavalle et al; "Efficient conversion of (1R, 5R)-(+)-alpha-pinene to (1S, 5R)-(-)-nopinene"; J. Org. Chem.; vol. 51(8); 1362-1365; (1986)						
Makriyannis A.; "No (anandamide): affin	*1* Lin S., Khanolkar A., Fan P., Goutopolous A., Qin C., Papahadjis D., Makriyannis A.; "Novel Analogues of arachidonylethanolamide (anandamide): affinities for the CB1 and CB2 Cannabinoid Receptors and Metabolic Stability"; J. Med. Chem.; vol. 41; 5353; 1998						

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros	Makriyannis et al		
CITATION IN AN APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications				
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US		
Loev, B., Bender, P. Cannabinoids. Structure Derivatives"; J. Med.	ture-Activity Studie	s Related to 1	1,2-Dimethylheptyl		
Lozinskii, M.O., Bodn Atovmyan, L.O.; "Unu oxalic acid ethyl ester Khimicheskaya; 11; 2	ısual transformatio r"; Izvestiya Akader	ns of arylhydr nii Nauk SSS	razonoyl chlorides of rr, Seriya		
lithium diisopropylam	Ludt, R.E. et al; "A comparison of the synthetic utility of n-butyllithium and lithium diisopropylamide in the metalations of N,N-dialkyltouamides"; J. Org. Chem.; 38(9); 1668-1674 (1973)				
*** Maccarron M., En Hormones 2002;65:2		d their action	s. Vitamins and		
cannabinoid, inhibit	*1* Mackie K., Devane W.A., Hille B.; "Anandamide, an endogenous cannabinoid, inhibits calcium currents as a partial agonist in N18 neuroblastoma cells"; Mol. Pharmacol; 44; 498-0503 (1993)				
*** Markwell, M.A.K., modification of the Lo membrane and lipopi	*** Markwell, M.A.K., S.M. Haas, L.L. Bieber, and N.E. Tolbert.; "A modification of the Lowry procedure to simplify protein determination in the membrane and lipoprotein samples." 1978; Anal. Biochem. 87:206-210.				
1	Martin et al; "Behavioral, biochemical, and molecular modeling evaluations of cannabinoid analogs"; Pharmacol. Biochem. Behav.; vol. 40(3); 471-478; 1991				
1	Martyn CN. Illis LS, Thom J.; "Nabilone in the treatment of multiple sclerosis"; Lancet (1995) vol. 345; pp. 579.				
Matsumoto et al; "Ca	Matsumoto et al; "Cannabinoids 1.1-amino-and 1 mercapto-7,8,9,10-tetrahydro-6h-dibenzo[b,d]pyrans"; J. of Med. Chem.; vol. 20(1); 17-24;				
Eur. Arch. Psychiat. 0	nd analgesic effects Clin. Neurosci. (199	s in a single c 90), 240:1-4. (ase double-blind trial."; (abstract only)		
Mavromoustakos, T. cannabinoids on pho calorimetry and small vol 1281(2); 1996; XF	sphatidylcholine bil I angle X-ray diffrac	ayers using d			
1 Mechoulam et al	; Structural Requ compounds to the		Binding of abinoid Receptor; J.		
	ereochemical Requ		cannabinoid activity"; J.		

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros Makriyannis et al			
CITATION IN AN APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications				
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US		
enantiomers of a tetra	Mechoulam et al; "Synthesis of the individual, pharmacologically distinct, enantiomers of a tetrahydrocannabinol derivative"; Tetrahedron Asymmetry; 1: 311-314; (1990) (abstract only)				
*** Mechoulam et al;	*** Mechoulam et al; "Synthesis of the individual, pharmacologically distinct, enantiomers of a tetrahydrocannabinol derivative."; Tetrahedron Asymmetry;				
*** Mechoulam, "Can	nabinoids as thera	peutic agents	"; CRC press, 1986		
Bifulco, M., DiMarzo amides"; Biochemic 275-284. (abstract o	*1* Melck, D., Bisogno, T., DePetrocellis, L., Chuang, H., Julius, D., Bifulco, M., DiMarzo, V.; "Unsaturated Long-Chain N-Acyl-vanillylamides"; Biochemical and Biophysical Res. Commun.; (1999); 262(1); 275-284. (abstract only) Meltzer et al; "An improved synthesis of cannabinol and cannabiorcol";				
Synthesis; 1981:985	(1981)				
Cannabinoids Canna	Melvin et al; "Structure-Activity Relationships Defining the ACD-Tricyclic Cannabinoids Cannabinoid Receptor Binding and Analgesic Activity"; Drug Design and Discovery; 13(2); 155-166 (1995). (abstract only)				
and analgesic activity	Melvin et al; "Structure-activity relationships for cannabinoid receptor-binding and analgesic activity: studies of bicyclic cannabinoid analogs"; Mol. Pharmacol.; 44(5); 1008-1015 (1993) (abstract only)				
Merck Index; 11th ed 1989	Merck Index; 11th edition; "Tetrahydrocannabinols" compound no. 9142;				
1 -	*** Morgan Dr: Therapeutic Uses of Cannabis. Harwood Academic Publishers, Amsterdam. (1997).				
Phenyl ethers with Po	*** Morris, S,; Mechoulam, R.; and Irene, Y., Halogenation of phenols and Phenyl ethers with Potassium Halides in the Presence of 18-Crown-6 on Oxidation with m-Chloroperbenzoic Acid, J. Chem. Soc., Perkin Trans. 1 1987, 1423-1427				
disorders. Porsch. Koonly)	ompicmentarmed (1999) 6 (supp	cannabis in movement ol. 3) 23-27. (abstract		
Muller-Vahl KB, Schr Tourette's syndrome (1999); 156(3); 495.	with delta-9-tetrah	ydrocannabin	ol." Am. J. Psychiat.;		
1 Neunhoeffer O.,	Gottschlich R.; "/ vatives"; Justus l	Acylating act liebigs Ann.	Press Inc., Totowa, NJ ivity of O-acylated Chem.; 736; 100-109;		

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros Makriyannis et al				
APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications					
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US			
cannabinoids; J. Che only)	Novak, J et al; "Cannabis, part 27, synthesis of 8-, 10- and 11-oxygenated cannabinoids; J. Chem. Soc. Perkin Trans.; 2867-2871; (1983) (abstract only)					
Nye et al; "High affini labelled with [H]-5'-tri Pharmacol. Exp. The	methylammonium or.; vol. 234(3); 784-	delta8-tetrahy 791; 1985	drocannabinol"; J.			
Receptors"; J. Pharm Table (1991).	acol. Exp. Ther.; ve	ol. 257, no. 1,	ecific G-Protein-Linked pp. 170-183 and 172			
Palmer et al; "Natural Activity Relationships (2000)	Palmer et al; "Natural and Synthetic Endocannabinoids and Their Structure-Activity Relationships"; Current Pharmaceutical Design; 6; 1381-1397; (2000)					
	Papahatjis et al; "A new ring-forming methodology for the synthesis of conformationally constrained bioactive molecules"; Chemistry Letters, 192;					
multiple bond and C1	Papahatjis et al; "Pharmacophoric requirements for cannabinoid side chains: multiple bond and C1'-substituted delta8-tetrahydrocannabinols"; J. Med. Chem.; 41(7); 1195-1200; (1998)					
1 · · · · · · · · · · · · · · · · · · ·	Pertwee et al; "AM630, a competitive cannabinoid receptor agonist"; Life Sci. 1995, 56(23/24), 1949-1955; XP 000653566					
receptor agonists in t	Pertwee et al; "Pharmacological characterization of three novel cannabinoid receptor agonists in the mouse isolated vas deferens"; Eur. J. Pharmacol. 1995, 284, 241-247; XP-001041044					
1 Pertwee et al; "le		f certain ena	ntiomeric			
preparation of guine 980-984 (1992). (abs	cannabinoids in the mouse vas deferens and the myenteric plexus preparation of guinea-pig small intestine"; Br. J. Pharmacol.; 105(4); 980-984 (1992). (abstract only)					
	Pertwee; Pharmacology of cannabinoid CB1 and CB2 receptors"; Pharmacol. Ther., vol. 74(2); pp129-180; (1997); XP002226467					
Petrov, M.L., Terent's ".alpha.,.betaunsatu reactions. XVIII. Rea ethoxycarbonyl-N-Ph 1372-1378; (1993) (a	Petrov, M.L., Terent'eva, N.A., Potekhin, K.A., Struchkov, Yu. T.; ".alpha.,.betaunsaturated thiolates and their analogs in cycloaddition reactions. XVIII. Reaction of (2-phenylethynyl)tellurolates with C-ethoxycarbonyl-N-Phenylnitrilimine"; Zhurnal Organicheskoi Khimii; 29(7); 1372-1378; (1993) (abstract only)					
	*** Pinnegan-Ling D, Musty R.; Marinol and phantom limb pain: a case study. Proc Inv. Cannabinoid Rea. Sec. (1994):53.					

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros Makriyannis et al			
CITATION IN AN APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications				
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US		
1 Pinto et al; Cann					
	Amides and Esters of Arachidonic Acid; Mol. Pharmacol.; 1994; 46(3); 516-522. (abstract only)				
1 Piomelli D., Belt	ramo M., Glasnap	p S., Lin S.Y.	, Goutopoulos A., Xiw		
X-Q., Makriyannis A					
translocation by the USA; 96; 5802-5807		sporter"; Pro	oc. Natl. Acad. Sci.		
	Pitt et al; "The synthesis of Deuterium, carbon-14 and carrier free tritium labelled cannabinoids"; Journal of Labellled Compounds; vol. 11(4); 551-				
		, Hruby V.J.,	Burks T.F.; "Roles of		
mu, delta and kappa	a opiod receptors	in spinal and	l supraspinal		
	mediation of gastrointestinal transit effects and hot-plate analgesia in				
	the mouse"; J. Pharmacol. Exp. Ther.; 230(2); 341-348; (1994). (abstract				
	only)				
	Razdan et al; "Drugs derived from cannabinoids. 6Synthesis of cyclic				
1976 (abstract only)	analogues of dimethylheptylpyran"; J. Med. Chem.; vol. 19(5); 719-721;				
	1 Razdan et al; "Pharmacological and Behavioral Evaluation of				
			56(23-24); 2041-2048		
(abstract only)					
Reggio et al; "Charac					
	cannabinoid receptor using the active analog approach"; J. Med. Chem. United States; vol. 36(12); 1761-1771; 1993				
A.; and Mechoulam, Receptors and Inhibi 3228-3233	Rhee, M. H.; Vogel, Z.; Barg, J.; Bayewitch, M.; Levy, R.; Hanus, L.; Breuer, A.; and Mechoulam, R.; "Cannabinol Derivatives: Binding to Cannabinoid Receptors and Inhibition of Adenylcyclase"; J. Med. Chem. 1997, 40(20); 3228-3233				
	Rice AS. Cannabinoids and pain. Curr Opin Investig Drugs. 2001 Mar;2(3):399-414. (abstract only)				
	Richardson JD, Aanonsen I, Hargreaves KM; "Antihyperalgesic effects of a spinal cannabinoids"; Eur. J. Pharmacol. (1998) 346:145-153.				
and inflammation via 75:111-119.	interaction with pe	ripheral CB1	ls reduce dryperalgesia receptors"; Pain (1998)		
SR141716A, the first	Rinaldi-Carmona et al; "Biochemical and pharmacological characterization of SR141716A, the first potent and selective brain cannabinoid receptor antagonist"; Life Sci.; vol. 56(23/24); 1941-1947 (1995)				

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros Makriyannis et al			
CITATION IN AN APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications				
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US		
Rinaldi-Carmona et a					
the brain cannabinoid					
Rompp Chemie Lexik Verlag; Stuttgart, S 5		itz; "band 1-A	A-C1, 8"; Aufl, Thieme		
1	,2,4,5-tetrazine"; A		atives. IX. Synthesis Pharmaceutica; 50(2-		
Schatz AR et al; "Car expression and aden	Schatz AR et al; "Cannabinoid receptors CB1 and CB2: a characterization of expression and adenylate cyclase modulation within the immune system"; Toxicol Appl Pharmacol. 1997 Feb; 142(2):278-87				
*** Schuel, H., Burkm Cannabinoid recepto	•		•		
and 2-monoglycerid (1966)	*1* Serdarevich B., Caroll K.K., "Synthesis and characterization of 1-and 2-monoglycerides of anteiso fatty acids"; J. Lipid Res.; 7; 277-284;				
of N-aryl-C-ethoxycai	Shawali, A.S., Albar, H.A.; "Kinetics and mechanism of dehydrochlorination of N-aryl-C-ethoxycarbonyl formohydrazidoyl chlorides"; Canadian Journal Of Chemistry; 64(5); 871-875; 1986 (abstract only)				
hippocampal neurons 462.	Shen M. Thayer SA: Cannabinoid receptor agonists protect cultured rat hippocampal neurons from excitotoxicity. Mol. Pharmacol (1996) 54:459-				
study of the cannabir	Shim et al; "Three-dimensional quantitative structure-activity relationship study of the cannabimimetic (aminoalkyl)indoles using comparative molecular field analysis"; J. Med. Chem.; 1998, 41(23); 4521-4532; XP-002212407				
aminoalkylindoles de cannabinoid receptor Symposium series, 1 001095771	Shim et al; "Unified pharmacophoric model for cannabinoids and aminoalkylindoles derived from molecular superimposition of CB1 cannabinoid receptor agonists CP55244 and WIN55212-2"; ACS Symposium series, 1999 719 (rational drug design), 165-184; XP-001095771				
peripheral cannabino subtype selective liga XP-001097918	Showalter et al; "Evaluation of binding in a transfected cell line expressing a peripheral cannabinoid receptor (CB2): identification of cannabinoid receptor subtype selective ligands""; J. Pharmacol. Exp. Ther., 1996 278(3) 989-999; XP-001097918				
receptor antagonist,	Simiand J, Keane M, Keane PE, Soubrie P: SR 141716, A CB1 cannabinoid receptor antagonist, selectively reduces sweet food intake in marmoset. Behav. Pharmacol (1998) 9:179-181. (abstract only)				

INFORMATION DISCLOSURE	Application No. 09/600,786	Inventor Alexandros Makriyannis et al			
CITATION IN AN APPLICATION	Title Cannabimimetic Lipid Amides as Useful Medications				
	Filing Date 07/21/2000	Group Art Unit 1614	Docket No. UCONAP/145/PC/US		
Tetko, I. V. et al; "Vol 3D QSAR Studies"; J 2413, 2414 Table 1.	Tetko, I. V. et al; "Volume Learning Algoritm Artificial Neural Networks For 3D QSAR Studies"; J. Med. Chem.; vol. 44, no. 15 (2001) pp. 2411-2420, 2413. 2414 Table 1.				
rodents by the select	Terranova J-P, Storme J-J Lafon N et al; "Improvement of memory in rodents by the selective CB1 cannabinoid receptor antagonist, SR 141716"; Psycho-pharmacol (1996) 126:165-172 (abstract only)				
Tius et al; "Conforma Steroeselective synth (1994) (abstract onl	esis and activity";				
Ueda, N., Endocanna Mediators 2002;68-6			ns & Other Lipid		
"Anandamide, a bra with cannabinoid re	*1* Vogel Z., Barg J., Levy R., Saya D., Heldman E., Mechoulam R.; "Anandamide, a brain endogenous compound, interacts specifically with cannabinoid receptors and inhibits adenylate cyclase"; J. Neurochem.; 61(1) 352-355; (1993) (abstract only)				
	Wagner JA, Varga K, Jarai Z, Kunos G; "Mesenteric vasodilation mediated by endothelia anandamide receptors"; Hypertension (1999) 33:429-434.				
Biaryls via the Pallad	Watanabe, T.; Miyaura, N.; and Suzuki, A.; "Synthesis of Sterically Hindered Biaryls via the Palladium Catalyzed Cross-Coupling Reaction of Arylboronic Acids or their Esters with Haloarenes"; Synlett 1992, 207-210				
1	Wiley et al; "Structure activity relationships of indole and pyrrole derived cannabinoids"; J. Pharmacol. Exp. Ther. 1998, 285(3), 995-1004; XP-				
intersts"; J. Med. Che	Wilson et al; "9-nor-delta8-tetrahydrocannabinol, a cannabinoid of metabolic intersts"; J. Med. Chem.; 17(4); 475-476; (1974)				
metabolites and anal	Wilson et al; "Analgesic properties of the tetrahydrocannabinols, their metabolites and analogs"; J. Med. Chem.; 18(7); 700-703; (1975)				
behavioral and analg tetrahydrocannabino	Wilson et al; "9-nor-9-hydrohexahydrocannabinols. Synthesis, some behavioral and analgesic properties, and comparison with the tetrahydrocannabinols"; J. Med. Chem.; 19(9); 1165-1167; (1976)				
affinity ligands for the 39(10), 1967-1974	brain cannabinoid	receptor"; J.	potentiual electrophilic Med. Chem. 1996, vol.		
(1'-1'-dimethylheptyl)	Yan, Guo et al; "Synthesis and pharmacological properties of 11-hydroxy-3-(1'-1'-dimethylheptyl)hexahydrocannabinol: a high affinity cannabinoid agonist"; J. Med. Chem.; vol. 37(16); 2619-2622; (1994)				

CITATION IN AN APPLICATION Title Cannabimimetic Lipid Amides as Useful Filing Date Group Art Unit Docket No			Inventor Alexandros Makriyannis et al	
		Title Cannabimimetic Lipid Amides as Useful Medications		
		Docket No. UCONAP/145/PC/US		
Yan Guo et al; "(-)-11-hydroxy-7'-isothiocyanato-1'-1'dimethylheptyl-delta8- THC: a novel probe for the cannabinoid receptor in the brain"; J. Med. Chem.; 37(23); 3867-3870; (1994)				
Examiner		Date Considered		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.				